ABSTRACT

[0036] The invention is directed to a device for calibrating an optical detection channel for a two-dimensional, spatially dependent measurement of fluorescent or luminescent radiation in multi-specimen carriers. The object of the invention, to find a novel possibility for calibrating an optical detection channel for a two-dimensional, spatially dependent measurement of fluorescent or luminescent radiation in multi-specimen carriers permitting a highly accurate calibration of the spatial sensitivity distribution of the sensor array in the detection channel which is economical, can be repeated at any time and can be adapted to the intensity level of the measurement task, is met according to the invention by providing a plate-shaped housing which is manufactured in the shape and size of the multi-specimen carriers under examination and has, on its side facing the detection channel, a large-area rectangular window whose size is adapted to the surface of the multi-specimen carrier under examination, which surface is provided with wells, and there is a luminescent foil inside the housing which is arranged parallel to the window so as to cover its surface, and a power source and control units are provided in the housing for controlling the luminescent foil, so that the luminescent foil can be controlled for homogeneous emission of luminescent light through the window of the housing in different intensity levels.